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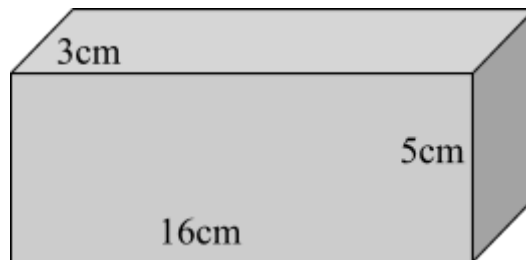
## Grade 7: Math

### 3.3 Measurement: Surface Area

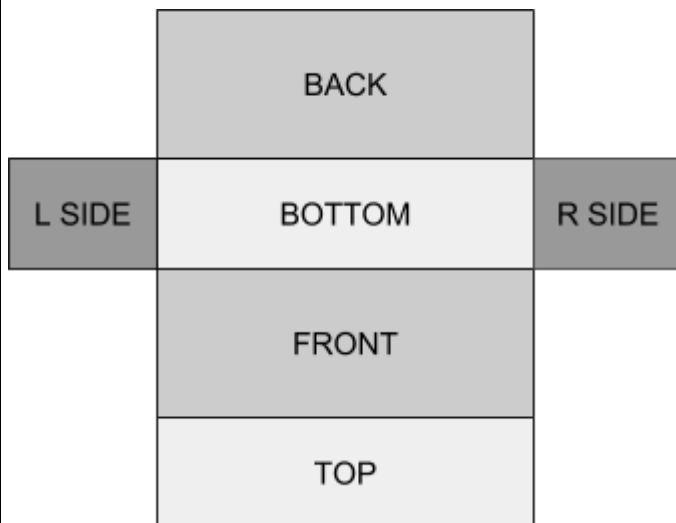
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We will be focussing on finding the surface area of rectangular prisms.

- **Example 1:** Find the surface area of the rectangular prism.



- **Solution:** To find the surface area we draw a net for the above shape.



- Label all faces.
- Write down all side length along the edges.
- Use  $A = L \times W$  to find the area of each face.
- Area of top =
- Area of front =
- Area of right side =

- Surface area of the box = Area of top + bottom + front + back + right side + left side

=

=

- **Example 2:** A square based prism has a surface area of  $500 \text{ cm}^2$ . The square base has side length of 9 cm. What is the height of the prism?

**Solution:** Draw a prism.

Next, write a “Let” statement.

Draw the net

Area of each face

Solve the equation

Top =

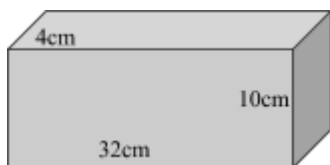
Front =

Back =

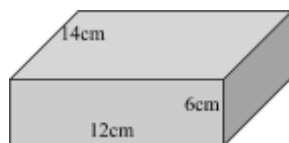
Surface Area =

- Draw nets and find the surface area of the rectangular prisms shown below.

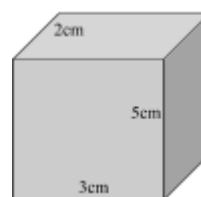
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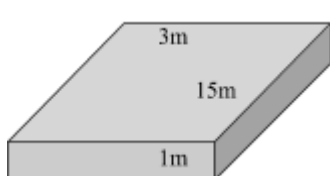
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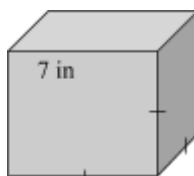
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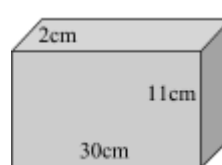
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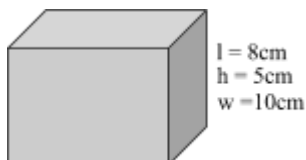
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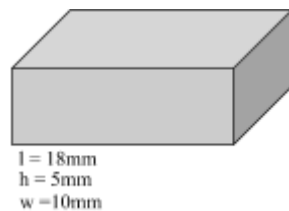
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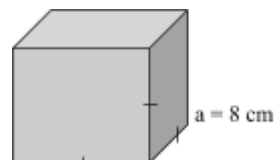
7.



8.



9.



- Homework: Please complete questions 1-3, 8, 11, 12 on page 99-100 from the textbook.